

APPENDIX F – IMPACT ASSESSMENT

Proposed cultivation of 15 ha virgin soil for the establishment of organic pumpkin farming or grazing pastures and associated water pipeline on the Remaining Extent of the Farm Donegal no 217 near Hopetown, Northern Cape

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Prepared for:

Olyf Trust Mr. Koos de Wet lily@inext.co.za 083 266 4135

Prepared by:

Johan Botes johan@eco-con.co.za 051 436 1254 082 459 8206

Directors: WA Botes - Financial Director | J Botes - Managing Director | PS Kole - Marketing Director

+27 (0)51 436 1251

+27 (0)86 592 2282 | info@eco-con.co.za

www.eco-con.co.za



ENVIRONMENTAL IMPACT ASSESSMENT

The following section identifies the potential environmental impacts (both positive and negative) which the construction as well as operational phases of the proposed project will have on the surrounding environment.

Once the potential environmental impacts are identified, they are assessed by rating their Environmental Risk after which the final Environmental Significance is calculated and rated for each identified environmental impact.

The same Environmental Risk rating process is then followed for each environmental impact to determine the Environmental Significance if the recommended mitigation measures were to be implemented.

The objective of this section is therefore firstly to identify all the potential environmental impacts of the proposed project and secondly to determine the significance of the impacts and how effective the recommended mitigation measures will be able to reduce their significance. The potential environmental impacts which are still rated as highly significant, even after implementation of mitigations, can then be identified in order to specifically focus on implement of effective management strategies for them.

METHODOLOGY FOR IMPACT ASSESSMENT AND RISK RATING

The tables below indicate and explain the methodology and criteria used for the evaluation of the Environmental Risk Ratings as well as the calculation of the final Environmental Significance Ratings of the identified potential environmental impacts.

Each potential environmental impact is scored for each of the Evaluation Components as per the table below.

Table 1: Scale utilised for the evaluation of the Environmental Risk Ratings

Evaluation Component	Rating Scale and Description/criteria
MAGNITUDE of	10 - Very high: Bio-physical and/or social functions and/or processes might be severely altered.
NEGATIVE IMPACT (at the	8 - High: Bio-physical and/or social functions and/or processes might be <i>considerably</i> altered.
indicated spatial scale)	6 - Medium : Bio-physical and/or social functions and/or processes might be <i>notably</i> altered.
	4 - Low: Bio-physical and/or social functions and/or processes might be slightly altered.

	2 - Very Low: Bio-physical and/or social functions and/or processes might be negligibly altered.
	0 - Zero : Bio-physical and/or social functions and/or processes will remain <i>unaltered</i> .
	10 - Very high (positive): Bio-physical and/or social functions and/or processes might be substantially enhanced.
	8 - High (positive): Bio-physical and/or social functions and/or processes might be <i>considerably</i> enhanced.
MAGNITUDE of POSITIVE	6 - Medium (positive): Bio-physical and/or social functions and/or processes might be notably enhanced.
IMPACT (at the indicated	4 - Low (positive): Bio-physical and/or social functions and/or processes might be slightly enhanced.
spatial scale)	2 - Very Low (positive): Bio-physical and/or social functions and/or processes might be negligibly enhanced.
	0 - Zero (positive) : Bio-physical and/or social functions and/or processes will remain <i>unaltered</i> .
	5 - Permanent
DURATION	4 - Long term: Impact ceases after operational phase/life of the activity > 60 years.
DORATION	3 - Medium term : Impact might occur during the operational phase/life of the activity – 60 years.
	2 - Short term: Impact might occur during the construction phase - < 3 years.
	1 - Immediate
	5 - International: Beyond National boundaries.
EXTENT	4 - National: Beyond Provincial boundaries and within National boundaries.
(or spatial	3 - Regional : Beyond 5 km of the proposed development and within Provincial boundaries.
scale/influence of impact)	2 - Local: Within 5 km of the proposed development.
or impact,	1 - Site-specific: On site or within 100 m of the site boundary.
	0 - None
	5 – Definite loss of irreplaceable resources.
	4 – High potential for loss of irreplaceable resources.
IRREPLACEABLE loss of	3 – Moderate potential for loss of irreplaceable resources.
resources	2 – Low potential for loss of irreplaceable resources.
	1 – Very low potential for loss of irreplaceable resources.
	0 - None
	5 – Impact cannot be reversed.
	4 – Low potential that impact might be reversed.
REVERSIBILITY of impact	3 – Moderate potential that impact might be reversed.
or impact	2 – High potential that impact might be reversed.
	1 – Impact will be reversible.
	0 – No impact.
	5 - Definite: >95% chance of the potential impact occurring.

	4 - High probability: 75% - 95% chance of the potential impact occurring.					
PROBABILITY	3 - Medium probability: 25% - 75% chance of the potential impact occurring					
(of occurrence)	2 - Low probability: 5% - 25% chance of the potential impact occurring.					
	1 - Improbable: <5% chance of the potential impact occurring.					
Evaluation Component	Rating Scale and Description/criteria					
	High : The activity is one of several similar past, present or future activities in the same geographical area, and might contribute to a very significant combined impact on the natural, cultural, and/or socio-economic resources of local, regional or national concern.					
CUMULATIVE impacts	Medium : The activity is one of a few similar past, present or future activities in the same geographical area, and might have a combined impact of moderate significance on the natural, cultural, and/or socio-economic resources of local, regional or national concern.					
	Low : The activity is localised and might have a negligible cumulative impact.					
	None: No cumulative impact on the environment.					

Once the Environmental Risk Ratings have been evaluated for each potential environmental impact, the Significance Score of each potential environmental impact is calculated by using the following formula:

• SS (Significance Score) = (magnitude + duration + extent + irreplaceable + reversibility) x probability.

The maximum Significance Score value is 150.

The Significance Score is then used to rate the Environmental Significance of each potential environmental impact. The Environmental Significance rating process is completed for all identified potential environmental impacts both before and after implementation of the recommended mitigation measures.

Table 2: Scale used for the evaluation of the Environmental Significance Ratings

Significance Score	Environmental Significance	Description/criteria
125 – 150	Very high (VH)	An impact of very high significance will mean that the project cannot proceed, and that impacts are irreversible, regardless of available mitigation options.
100 – 124	High (H)	An impact of high significance which could influence a decision about whether or not to proceed with the proposed project, regardless of available mitigation options.

75 – 99	Medium-high (MH)	If left unmanaged, an impact of medium-high significance could influence a decision about whether or not to proceed with a proposed project. Mitigation options should be relooked.
40 – 74	Medium (M)	If left unmanaged, an impact of moderate significance could influence a decision about whether or not to proceed with a proposed project.
<40	Low (L)	An impact of low is likely to contribute to positive decisions about whether or not to proceed with the project. It will have little real effect and is unlikely to have an influence on project design or alternative motivation.
+	Positive impact (+)	A positive impact is likely to result in a positive consequence/effect, and is likely to contribute to positive decisions about whether or not to proceed with the project.

		PLANNING, DESIG	N AND CONSTRUCTION	N PHASE		
		Poter	ntial Flora Impacts:			
Nature of impact: Direct impact on Flora as a	a result of vegetation clear	rance.			Activity: Proposed development of organic pumpkin farming fields	
Evaluation	Alternative	1 (Preferred)	Alte	rnative 2		
Component:	Before Mitigation	After Mitigation	Before mitigation	After Mitigation	No-Go Alternative	
Magnitude:	4	2	2	2	2	
Duration:	5	5	5	5	1	
Extent:	2	2	2	2	1	
Irreplaceable:	2	1	2	1	1	
Reversibility:	4	1	4	1	2	
Probability:	4	4	4	4	2	
Total SP:	68	44	60	44	14	
Significance rating:	Medium (M)	Medium (M)	Medium (M)	Medium (M)	Low (L)	
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)	
Proposed Mitigation:	 Restoration measures will be required to reinstate functionality in the disturbed soil and vegetation. Any accidental fuel and oil spills that occur at the site should be cleaned up in the appropriate manner as related to the nature of the spill. The project construction footprint must be kept as small as practicably possible to reduce the actual surface impact on vegetation and no unnecessary/unauthorised footprint expansion into the surrounding areas may take place. Natural veld situated in-between the proposed cultivated lands must not be impacted upon and must be left in situ. Existing roads and farm tracks in close proximity to the proposed project area must be used during construction. A Provincial Flora Permit and National Protected Tree Permit has to be obtained prior to the commencement of any construction activities. Areas within and immediately surrounding the proposed project footprint must be adequately rehabilitated to prevent significant alien invasive species establishment. Alien and invasive species need to be eradicated and controlled. 					
		Poten	tial Fauna Impacts:			
Nature of impact: Direct impact on Fauna as	s a result of vegetation clea	arance.			Activity: Proposed development of organic pumpkin farming fields	
Evaluation	Alternative	1 (Preferred)		rnative 2	No-Go Alternative	
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	NO-GO AILEITIALIVE	
Magnitude:	2	2	2	2	2	
Duration:	5	5	5	5	2	
Extent:	2	2	2	2	1	

Reversibility:

Probability:

Significance rating:

Total SP:

Irreplaceable:	2	2	2	2	1	
Reversibility:	2	1	2	1	2	
Probability:	2	2	2	2	2	
Total SP:	26	24	26	24	16	
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)	
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)	
 The project construction footprint must be kept as small as practicably possible to reduce the actual surface impact on vegetation and no unnecessary/unauthorised footprint expansion into the surrounding areas may take place. Natural veld situated in-between the proposed cultivated lands must not be impacted upon and must be left in situ. Existing roads and farm tracks in close proximity to the proposed project area must be used during construction. A Provincial Flora Permit and National Protected Tree Permit has to be obtained prior to the commencement of any construction activities. Areas within and immediately surrounding the proposed project footprint must be adequately rehabilitated to prevent significant alien invasive species establishment. Alien and invasive species need to be eradicated and controlled. Potential Dust Impacts:						
Nature of impact: Dust nuisance generated of	Nature of impact: Dust nuisance generated during the development / preparation of the fields. Activity: Proposed development of organic pumpkin farming fields					
Evaluation	Alternative	1 (Preferred)	Alte	rnative 2	No-Go Alternative	
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	NO-GO AILEITIALIVE	
Magnitude:	4	2	2	2	2	
Magnitude: Duration:	2	2 2	2 2	2 2	2 2	
	'	_	2 2 2	_		

Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)				
	 Dust Management measures must be implemented in order to manage and minimize undesired dust emissions. 							
Proposed Mitigation:	 Access roads need to 	Access roads need to be well maintained and dust suppression need to be applied during windy days.						

1

3

27

Low (L)

2

3

36

Low (L)

Cultivated land need to be rehabilitated by planting buffalo grass while not in use (7-year cycle apply to these field)

Potential Noise Impacts:

2

3

30

Low (L)

1

3

27

Low (L)

Nature of impact: Activity: Noise nuisance generated during the development / preparation of the fields.

2

2

16

Low (L)

Low (L)

					Proposed development of organic pumpkin farming fields
Evaluation	Alternative	1 (Preferred)	Alternative 2		
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative
Magnitude:	2	2	2	2	2
Duration:	2	2	2	2	2
Extent:	2	2	2	2	1
Irreplaceable:	2	2	2	2	1
Reversibility:	2	1	2	1	2
Probability:	2	2	2	2	2
Total SP:	24	18	24	18	16
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)
	Limit working hours a	of noisy equipment to dayligh	nt hours		

Limit working hours of noisy equipment to daylight hours.

Fit silencers to equipment.

Proposed Mitigation:

- Unless otherwise specified, normal working hours will apply (i.e. from 07:00 to 17:00 Mondays to Fridays).
- Ensure that Employees and staff conduct themselves in an acceptable manner while on site, both during work hours and after hours.
- No loud music is permitted on site or in the camp.

Potential Cultural and Heritage Impacts:

Nature of impact:	Activity:					
Damage and destruction o	Damage and destruction of vertebrate fossils during excavation activities.					
	pumpkin farming fields					
Evaluation	Alternative	1 (Preferred)	Alte	rnative 2	No. Co. Albania di in	
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative	
Magnitude:	2	2	2	2	0	
Duration:	2	1	2	1	1	
Extent:	1	1	1	1	1	
Irreplaceable:	2	1	2	1	1	
Reversibility:	2	1	2	1	1	
Probability:	1	1	1	1	1	
Total SP:	9	6	9	6	4	
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)	
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)	
Proposed Mitigation:					s, any articles of value or antiquity, stone	
1 Toposca Willigation.	artefacts or bone rem	nains, structures and or built	features, rock art and rock e	engravings) be exposed during ex	cavations for the purpose of construction,	

construction in the vicinity of the finding must be stopped. A trained palaeontologist or heritage specialist must be notified to assess the finds, and this must then be reported to the applicable heritage authority.

- Heritage remains uncovered or disturbed during earthworks must not be disturbed further until the necessary approval has been obtained from the heritage authority. A registered heritage specialist must be called to the site for inspection and removal once authority to do so, has been given.
- Under no circumstances shall any heritage material be destroyed or removed from site.
- Excavations must be limited to the footprint area and be maintained in a narrow corridor.
- All operations of excavation equipment must be made aware of the possibility of the occurrence of sub-surface heritage features and the following procedures must be followed:
 - All construction in the immediate 50 metre vicinity of the site must be ceased.
 - The heritage practitioner must be informed as soon as possible.
 - In the event of obvious human remains SAPS must be notified.
 - Mitigation measures (such as refilling) must not be attempted.
 - The area in a 50 metre radius of the find must be barricaded with visible taping.
- Public access must be limited and the area must be placed under guard.

Potential Surface and Grou	indwater Contai	mination Impacts:
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Nature of impact:	Activity:						
Surface and Groundwater	Proposed development of organic						
Evaluation	Alternative	1 (Preferred)	Alte	rnative 2	No. Co. Albania atina		
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative		
Magnitude:	2	0	2	0	0		
Duration:	1	1	1	1	0		
Extent:	2	1	2	1	0		
Irreplaceable:	1	1	1	1	0		
Reversibility:	1	1	1	1	0		
Probability:	1	1	1	1	0		
Total SP:	7	4	7	4	0		
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)		
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)		

- Ensure that excavation areas have a predetermined stockpile area for excavated materials.
- Use overburden for rehabilitation.
- Any remaining overburden to be disposed of at a licensed waste site.

Proposed Mitigation:

- Alternatively, concrete can be mixed on mixing trays only and not on exposed soil. Concrete must be mixed only in areas which have been specially demarcated for this purpose.
- Material Safety Data Sheets (MSDS) must be available on site for all chemicals and hazardous substances to be used on site, including information on their ecological impacts and how to minimise the impacts in case of any leakages.
- All spills must be cleaned as soon as they occur. A spill kit must be used and proof of clean up must be given to the ECO.

Proposed Mitigation:

- Spillages of petrochemical products must be avoided. In the case of accidental spillage, contaminated soil must be removed for bioremediation or disposed of at a facility for the substance concerned. Disturbed land must be rehabilitated and seeded with vegetation seed naturally occurring on site.
- Provide suitable and sufficient ablution facilities (1 for every 15 personnel on site and 1 for each gender).
- Vehicles and machinery must be regularly serviced to avoid spillages.
- Drip trays must be placed beneath all stationary construction equipment and beneath all generators present on site.

Potential Waste Management Impacts:

Nature of impact: Waste impacts by means	Activity: Proposed development of organic pumpkin farming fields				
Evaluation	Alternative	1 (Preferred)	Alte	rnative 2	
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative
Magnitude:	2	2	2	2	2
Duration:	2	2	2	2	2
Extent:	2	2	2	2	1
Irreplaceable:	2	2	2	2	1
Reversibility:	2	1	2	1	2
Probability:	2	2	2	2	2
Total SP:	24	18	24	18	16
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L) Low (L)
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L) Low (L)

- An adequate number of scavenger proof litter bins are to be placed throughout the site, dumping of waste on the site is prohibited.
- Waste sorting and separation should form part of the environmental induction and awareness programme to encourage and educate personnel to recycle.
- Keep all work sites including storage areas, offices and workshops neat and tidy.
- All domestic waste is to be removed from site and disposed of at a registered solid waste landfill site.
- Care should be taken to ensure that no waste fall off disposal vehicles on-route to the landfill site. If needed, a tarpaulin can be utilised.
- The burning and burying of solid waste on site is prohibited.
- Littering by construction workers shall not be permitted.
- General waste shall be removed from site on a weekly basis to an approved landfill site.
- Minimise waste by sorting waste into recyclable and non-recyclable materials.

Potential Traffic Impacts:

Nature of impact: Traffic impacts by means of additional truck and transportation to and from site during the development / preparation of the fields. Activity: Proposed development of organic pumpkin farming fields

Evaluation	Alternative	1 (Preferred)	Alt	ernative 2					
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative				
Magnitude:	2	2	2	2	0				
Duration:	2	1	2	1	1				
Extent:	1	1	1	1	1				
Irreplaceable:	2	1	2	1	1				
Reversibility:	2	1	2	1	1				
Probability:	1	1	1	1	1				
Total SP:	9	6	9	6	4				
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)				
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)				
Proposed Mitigation:	 Abnormal loads should be timed to avoid times of the year when traffic volumes are likely to be higher, as would be expected over national holidays, weekends and school holiday periods. All vehicles should be road worthy, be maintained to prevent fuel or oil leaks and drivers are to be licensed appropriately for the driving of their assigned vehicle. Any damage to public roads is to be reported to the management authority and repaired to its original condition. Signage is to be placed on vehicles at all times. 								
	Potential Fire Risk Impacts:								
Nature of impact: Increase risk of fires during	the development / prep	aration of the fields.			Activity: Proposed development of organic pumpkin farming fields				
Evaluation	Alternative	1 (Preferred)	Alt	ernative 2					
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative				
Magnitude:	2	2	2	2	0				
Duration:	1	1	1	1	1				
Extent:	2	1	2	1	1				
Irreplaceable:	2	1	2	1	1				
Reversibility:	2	1	2	1	1				
Probability:	1	1	1	1	1				
Total SP:	9	6	9	6	4				
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)				
Cumulative impact:	Medium (M)	Medium (M)	Medium (M)	Medium (M)	Medium (M)				
Proposed Mitigation:	All construction equipments	and the contractor's camp is oment must have at least on quately trained in the hand	e firefighting extinguisher.						

No open fires are permitted anywhere on site due to the handling of gas on site. No fires will be permitted for heating or cooking purposes on site. Fuel and chemicals must be stored in an area that is acceptable for the client. No smoking will be allowed within close vicinity of the site. **Potential Soil Contamination Impacts:** Nature of impact: **Activity:** Increased Soil contamination by means of hazardous substances. Proposed development of organic pumpkin farming fields Alternative 2 **Evaluation** Alternative 1 (Preferred) **No-Go Alternative Before Mitigation** After Mitigation **Before Mitigation After Mitigation Component:** Magnitude: 2 0 0 2 0 **Duration:** 1 1 1 1 1 Extent: 1 1 1 1 1 2 1 2 Irreplaceable: 1 1 1 0 1 0 1 **Reversibility:** 2 1 2 1 1 **Probability:** 14 3 14 3 **Total SP:** Significance rating: Low (L) Low (L) Low (L) Low (L) Low (L) **Cumulative impact:** Low (L) Low (L) Low (L) Low (L) Low (L) No leaked oil or fuel tankers may contaminate soil All tanks and pipes containing fuel or oil must be inspected on a regular basis Spills outside the bund area must be treated with a spill kit All significant leaks must be reported to the competent authority in terms of NEMA UST must be fitted with leak detectors in order to alert when a leak is occurring. Overfill and spillages during tanker refuelling and fuel dispensing should be prevented by the installation of automatic cut off devices. **Proposed Mitigation:** Tanker delivery drivers must be present during delivery of fuel with the emergency cut off switch and a fire extinguisher A closed coupling must be used when fuel is being transferred from the bulk delivery vehicle to the USTs to prevent fugitive emissions. All personnel working with fuel must undergo spill kit training The oil/water separator must be inspected on a regular basis and the inspection report must be provided to the ECO and relevant authority. Following a leak or accidental spill, a remediation plan must be compiled and executed. Fuel stock must be monitored on a daily basis in order to identify if the tank is leaking. **Potential Soil Erosion Impacts:** Nature of impact: **Activity:** Increased Soil erosion due to construction activities. Proposed development of organic pumpkin farming fields **Evaluation** Alternative 1 (Preferred) Alternative 2 No-Go Alternative **Before Mitigation After Mitigation Before Mitigation After Mitigation** Component:

Magnitude:	4	2	2	2	0
Duration:	3	3	2	3	1
Extent:	2	2	2	2	1
Irreplaceable:	2	2	2	2	1
Reversibility:	2	1	2	1	1
Probability:	3	1	3	1	1
Total SP:	39	10	30	10	4
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)
	During construction	un-channelled flow must be	controlled to avoid soil eros	ion. Where large areas of soil ar	e left exposed rows of straw or hav

Proposed Mitigation:

- During construction, un-channelled flow must be controlled to avoid soil erosion. Where large areas of soil are left exposed, rows of straw or hay bales, or bundles of cut vegetation sourced with the ECO's knowledge and consent, should be dug into the soil in contours to slow surface wash and capture eroded soil. The method may also be used where surface run-off becomes concentrated,
- All water flow must be controlled using storm water management techniques before discharge into the existing natural drainage line,
- Temporary cut off drains may be required to capture storm water and promote infiltration,
- All storm water management features must be constructed in a manner that will ensure the continued functioning of the emergent vegetation. Construction must coincide with the dry season.

Potential Visual Impacts:

rotential visual impacts.									
Nature of impact:	lature of impact: Activity:								
Increased visual impact du	Increased visual impact due to increased working activities on-site.								
Evaluation	Alternative	1 (Preferred)	Alte	rnative 2	No Co Albamatina				
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative				
Magnitude:	2	0	2	0	0				
Duration:	1	1	1	1	1				
Extent:	1	1 1 1 1							
Irreplaceable:	2	1							
Reversibility:	1	0	1	0	1				
Probability:	2	1	2	1	1				
Total SP:	14	3	14	3	4				
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)				
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)				
Proposed Mitigation:	All waste must be placed in bins during operational phase. Keeping the area litter free.								
Proposed Willigation.	 Construction activitie 	s may only take place during	g normal working hours.						
		Potential S	ocio-Economic Impact	s:					
Nature of impact:					Activity:				

Increased socio-economic	Proposed development of organic pumpkin farming fields								
Evaluation	Alternative	Alternative 1 (Preferred) Alternative 2							
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative				
Magnitude:	6	8	6	8	8				
Duration:	1	1	1	1	1				
Extent:	2	2	2	2	2				
Irreplaceable:	2	2	2	2	2				
Reversibility:	2	2	2	2	2				
Probability:	4	5	4	5	4				
Total SP:	52	75	52	75	60				
Significance rating:	+ Medium (M)	+ Medium-high (MH)	+ Medium (M)	+ Medium-high (MH)	Medium (M)				
Cumulative impact:	+ Medium (M)	+ Medium (M)	+ Medium (M)	+ Medium (M)	Medium (M)				
Proposed Mitigation:	Low-, medium- and hWere practically poss	dium- and high skilled worke sigh skilled workers must be s sible, previously disadvantago rained and continuously devo	sourced locally. ed individuals should be pro	portunities. vided preference with regards t	o employment opportunities.				

	OPPERATIONAL PHASE								
Potential Flora Impacts:									
Nature of impact: Direct impact on flora as a	Activity: Proposed development of organic pumpkin farming fields								
Evaluation	Alternative 1	(Preferred)	Alte	rnative 2	No Co Albamatina				
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative				
Magnitude:	4	2	2	2	2				
Duration:	3	3	3	3	2				
Extent:	2	2	2	2	1				
Irreplaceable:	2	2	2	2	1				
Reversibility:	2	1	2	1	2				
Probability:	3	3	3	3	2				
Total SP:	39	30	33	30	16				
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)				
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)				
 Any accidental fuel and oil spills that occur at the site should be cleaned up in the appropriate manner as related to the nature of the spill. The project construction footprint must be kept as small as practicably possible to reduce the actual surface impact on vegetation unnecessary/unauthorised footprint expansion into the surrounding areas may take place. Natural veld situated in-between the proposed cultivated lands must not be impacted upon and must be left in situ. Existing roads and farm tracks in close proximity to the proposed project area must be used during operation. Alien and invasive species need to be eradicated and controlled. 									
		Potenti	al Fauna Impacts:						
Nature of impact: Continuous impact on Fauna as a result of cleared vegetation / habitat loss. Activity: Proposed development organic pumpkin farmi fields									
Evaluation	Alternative 1	(Preferred)	Alte	rnative 2	No Co Alternative				
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative				
Magnitude:	2	2	2	2	2				
Duration:	5	5	5	5	2				
Extent:	2	2	2	2	1				
Irreplaceable:	2	2	2	2	1				
сриссимист		2 2 2 2 2 2 1 2 1							

Probability:	2	2	2	2	2				
Total SP:	26	24	26	24	16				
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)				
Cumulative impact:	Low (L)	Low (L)							
Proposed Mitigation:	Natural veld situated in-between the proposed cultivated lands must not be impacted upon and must be left in situ. Existing roads and farm tracks in close proximity to the proposed project area must be used during operation.								
Potential Dust Impacts:									
Nature of impact: Dust nuisance generated during the operational phase of the project. Proposed de organic pum fields									
Evaluation	Alternative 1	(Preferred)	Alter	native 2	No-Go Alternative				
Component:	Before Mitigation	Before Mitigation After Mitigation Before Mitigation After Mitigation							
Magnitude:	4	2	2						
Duration:	3	1	3	1	2				
Extent:	2 1 2 1								
Irreplaceable:	2	2	2	2	1				
Reversibility:	2	1	2	1	2				
Probability:	3	3	3	3	2				
Total SP:	39	21	33	21	16				
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)				
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)				
Proposed Mitigation:	Dust Management measures must be implemented in order to manage and minimize undesired dust emissions.								
Nature of impact:		rotenti	ar itoise impacts.		Activity				
Nature of impact: Noise nuisance generated during the operational phase of the fields. Proposed development organic pumpkin farmir fields									
Evaluation	Alternative 1	(Preferred)	Alter	native 2	No Go Altornative				
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative				
Magnitude:	2 2 2 2 2								

Extent: 2 2 2 2 1 Irreplaceable: 2 2 2 2 1 Reversibility: 2 1 2 1 2 Probability: 2 2 2 2 2 Total SP: 34 19 34 19 16	Duration:	2	2	2	2	2
Reversibility: 2 1 2 1 2 Probability: 2 2 2 2 2	Extent:	2	2	2	2	1
Probability: 2 2 2 2 2 2	Irreplaceable:	2	2	2	2	1
·	Reversibility:	2	1	2	1	2
Total CD: 24 10 24 10	Probability:	2	2	2	2	2
10tal SP: 24 18 24 18 10	Total SP:	24	18	24	18	16
Significance rating: Low (L) Low (L) Low (L) Low (L)	Significance rating:	Low (L)				
Cumulative impact: Low (L) Low (L) Low (L) Low (L)	Cumulative impact:	Low (L)				

- Limit working hours of noisy equipment to daylight hours.
- Fit silencers to equipment.

Proposed Mitigation:

- Unless otherwise specified, normal working hours will apply (i.e. from 07:00 to 17:00 Mondays to Fridays).
- Ensure that Employees and staff conduct themselves in an acceptable manner while on site, both during work hours and after hours.
- No loud music is permitted on site or in the camp.

Potential Cultural and Heritage Impacts:

Nature of impact:	Nature of impact: Activity:							
Damage and destruction	Proposed development of							
					fields			
Evaluation	Alternative 1	(Preferred)	Alte	rnative 2	No Co Alternative			
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative			
Magnitude:	2	2	2	2	0			
Duration:	2	1	2	1	1			
Extent:	1	1	1	1	1			
Irreplaceable:	1	1	1	1	1			
Reversibility:	1	1	1	1	1			
Probability:	1	1	1	1	1			
Total SP:	7	6	7	6	4			
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)			
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)			
Proposed Mitigation:	 Should any heritage resources (including but not limited to fossils, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts or bone remains, structures and or built features, rock art and rock engravings) be exposed during excavations, all works in the vicinity of the finding must be stopped. A trained palaeontologist or heritage specialist must be notified to assess the finds, and this must then be reported to the applicable heritage authority. Heritage remains uncovered or disturbed during earthworks must not be disturbed further until the necessary approval has been obtained from the 							
	heritage authority. A reg	gistered heritage specialist m		spection and removal once author	•			

- Excavations must be limited to the footprint area and be maintained in a narrow corridor.
- All operations of excavation equipment must be made aware of the possibility of the occurrence of sub-surface heritage features and the following procedures must be followed:
 - All construction in the immediate 50 metre vicinity of the site must be ceased.
 - The heritage practitioner must be informed as soon as possible.
 - In the event of obvious human remains SAPS must be notified.
 - Mitigation measures (such as refilling) must not be attempted.
 - The area in a 50 metre radius of the find must be barricaded with visible taping.
- Public access must be limited and the area must be placed under guard.

Potential Surface and Groundwater Contamination Impacts:

Nature of impact: Activity: Surface and Groundwater Contamination during the operational phase by means of fertilizer and/or any other hazardous substances or Proposed development of organic pumpkin farming pesticides. fields **Evaluation** Alternative 1 (Preferred) Alternative 2 No-Go Alternative **Component: Before Mitigation After Mitigation Before Mitigation After Mitigation** Magnitude: 0 **Duration:** 1 1 1 0 Extent: 2 1 2 1 0 Irreplaceable: 1 0 1 1 1 **Reversibility:** 1 1 1 1 0 **Probability:** 1 1 7 7 0 **Total SP:** 4 4 Significance rating: Low (L) Low (L) Low (L) Low (L) Low (L) **Cumulative impact:** Low (L) Low (L) Low (L) Low (L) Low (L) When fertilisers / pesticides are used, ensure that all fertilisers / pesticides are environmentally friendly. When fertilisers / pesticides are used, only use the correct amount as indicated by the parcels. Do not over use. Material Safety Data Sheets (MSDS) must be available on site for all chemicals and hazardous substances to be used on site, including information on their ecological impacts and how to minimise the impacts in case of any leakages. All spills must be cleaned as soon as they occur. A spill kit must be used and proof of clean up must be given to the ECO. **Proposed Mitigation:** Spillages of petrochemical products must be avoided. In the case of accidental spillage, contaminated soil must be removed for bioremediation or disposed of at a facility for the substance concerned. Disturbed land must be rehabilitated and seeded with vegetation seed naturally occurring on site. Provide suitable and sufficient ablution facilities (1 for every 15 personnel on site and 1 for each gender). Vehicles and machinery must be regularly serviced to avoid spillages.

Drip trays must be placed beneath all stationary equipment and beneath all generators present on site.

Potential Waste Management Impacts:

Nature of impact: Waste impacts by means	Activity: Proposed development of organic pumpkin farming fields						
Evaluation	Alternative 1	(Preferred)	Alte	rnative 2	No-Go Alternative		
Component:	Before Mitigation	After Mitigation	NO-GO Alternative				
Magnitude:	2	2	2	2	2		
Duration:	2	2	2	2	2		
Extent:	2	2	2	2	1		
Irreplaceable:	2	2	2	2	1		
Reversibility:	2	1	2	1	2		
Probability:	2	2	2	2	2		
Total SP:	24	18	24	18	16		
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)		
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)		
Proposed Mitigation:	 An adequate number of scavenger proof litter bins are to be placed throughout the site, dumping of waste on the site is prohibited. Waste sorting and separation should form part of the environmental induction and awareness programme to encourage and educate personnel to receive the part of the site including storage areas, offices and workshops neat and tidy. All domestic waste is to be removed from site and disposed of at a registered solid waste landfill site. Care should be taken to ensure that no waste fall off disposal vehicles on-route to the landfill site. If needed, a tarpaulin can be utilised. The burning and burying of solid waste on site is prohibited. Littering by workers shall not be permitted. General waste shall be removed from site on a weekly basis to an approved landfill site. Minimise waste by sorting waste into recyclable and non-recyclable materials. 						
		Potenti	al Traffic Impacts:				
Nature of impact: Traffic impacts by means of additional truck and transportation to and from site during the operational phase of the fields. Activity: Proposed development of organic pumpkin farming fields							
Evaluation	Alternative 1	(Preferred)	Alte	rnative 2	No-Go Alternative		
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	NO-GO Alternative		
Magnitude:	2	2	2	2	0		
Duration:	2	1	2	1	1		
Extent:	1	1	1	1	1		
Irreplaceable:	2	1	2	1	1		

Reversibility:	eversibility: 2 1 2 1 1 1								
Probability:	1	1	1	 1					
Total SP:	9	6	9	6	4				
Significance rating:	Low (L)	Low (L)	Low (L)						
Cumulative impact:	Low (L)	Low (L)	Low (L)						
Proposed Mitigation:	 Any damage to public roads is to be reported to the management authority and repaired to its original condition. Signage is to be placed on vehicles at all times. 								
		Potential	Fire Risk Impacts:						
Nature of impact: ncrease risk of fires during the operational phase of the fields. Proposed development of organic pumpkin farming fields									
Evaluation	Alternative 1 (Preferred) Alternative 2								
Component:	Before Mitigation	After Mitigation	No-Go Alternative						
Magnitude:	2	2	2	2	0				
Duration:	2	1	2	1	1				
Extent:	1	1	1	1	1				
Irreplaceable:	1	1	1	1	1				
Reversibility:	1	1	1	1	1				
Probability:	1	1	1	1	1				
Total SP:	7	6	7	6	4				
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)				
Cumulative impact:	Medium (M)	Medium (M)	Medium (M)	Medium (M)	Medium (M)				
 Ensure the work site is equipped with adequate firefighting equipment. All equipment must have at least one firefighting extinguisher. Workers must be adequately trained in the handling of firefighting equipment. No open fires are permitted anywhere on site. No fires will be permitted for heating or cooking purposes on site. Fuel and chemicals must be stored in an area that is acceptable for the client. Dedicated smoking areas are to be provided. 									
		Potential Soil (Contamination Impacts:						
lature of impact: Activity:									

Increased Soil contamina	Proposed development of organic pumpkin farming fields						
Evaluation	Alternative 1	rnative 2	N 0 411 11				
Component:	Before Mitigation	No-Go Alternative					
Magnitude:	8	0					
Duration:	5	5	1	1	1		
Extent:	1	1	1	1	1		
Irreplaceable:	3	3	2	1	1		
Reversibility:	3	3	1	0	1		
Probability:	5	4	2	1	1		
Total SP:	100	72	14	3	4		
Significance rating:	High (H)	Medium (M)	Low (L)	Low (L)	Low (L)		
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)		
Proposed Mitigation:	 All tanks and pipes containing fuel or oil must be inspected on a regular basis Spills outside the bund area must be treated with a spill kit All significant leaks must be reported to the competent authority in terms of NEMA UST must be fitted with leak detectors in order to alert when a leak is occurring. Overfill and spillages during tanker refuelling and fuel dispensing should be prevented by the installation of automatic cut off devices. Tanker delivery drivers must be present during delivery of fuel with the emergency cut off switch and a fire extinguisher A closed coupling must be used when fuel is being transferred from the bulk delivery vehicle to the USTs to prevent fugitive emissions. All personnel working with fuel must undergo spill kit training Following a leak or accidental spill, a remediation plan must be compiled and executed. Fuel stock must be monitored on a daily basis in order to identify if the tank is leaking. 						
		Potential	Soil Erosion Impacts:		1		
Nature of impact: Increased Soil erosion due to operational activities. Proposed development of organic pumpkin farming fields							
Evaluation	Alternative 1	(Preferred)		rnative 2	No-Go Alternative		
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	NO-GO AILEITIALIVE		
Magnitude:	4	2	2	2	0		
Duration:	3	3	3	3	1		
Extent:	2	2	2	2	1		
Irreplaceable:	2	2	2	2	1		

Reversibility:	2	1	2	1	1	
Probability:	3	1	3	1	1	
Total SP:	39	10	33	10	4	
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)	
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)	
Proposed Mitigation:	 During the operational phase, un-channelled flow must be controlled to avoid soil erosion. Where large areas of soil are left exposed, rows of straw hay bales, or bundles of cut vegetation sourced with the ECO's knowledge and consent, should be dug into the soil in contours to slow surface wash a capture eroded soil. The method may also be used where surface run-off becomes concentrated, All water flow must be controlled using storm water management techniques before discharge into the existing natural drainage line, Temporary cut off drains may be required to capture storm water and promote infiltration, All storm water management features must be constructed in a manner that will ensure the continued functioning of the emergent vegetat Construction must coincide with the dry season. 					
		Potenti	al Visual Impacts:			
Nature of impact: Increased visual impact de	Nature of impact: Increased visual impact due to increased working activities during the operational phase. Proposed development of organic pumpkin farming fields					
Evaluation	Alternative 1	No. Co. Altowarding				
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative	
Magnitude:	2	0	2	0	0	
Duration:	1	1	1	1	1	
Extent:	1	1	1	1	1	
Irreplaceable:	2	1	2	1	1	
Reversibility:	1	0	1	0	1	
Probability:	2	1	2	1	1	
Total SP:	14	3	14	3	4	
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)	
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)	
Proposed Mitigation: All waste must be placed in bins during operational phase. Keeping the area litter free. Construction activities may only take place during normal working hours.						
Potential Socio-Economic Impacts:						
Nature of impact: Increased socio-economic conditions due to job creation					Activity: Proposed development of organic pumpkin farming fields	

Evaluation	Alternative 1	(Preferred)	Alternative 2		No Co Altamatica	
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative	
Magnitude:	6	8	6	8	8	
Duration:	1	1	1	1	1	
Extent:	2	2	2	2	2	
Irreplaceable:	2	2	2	2	2	
Reversibility:	2	2	2	2	2	
Probability:	4	5	4	5	4	
Total SP:	52	75	52	75	60	
Significance rating:	+ Medium (M)	+ Medium-high (MH)	+ Medium (M)	+ Medium-high (MH)	Medium (M)	
Cumulative impact:	+ Medium (M)	+ Medium (M)	+ Medium (M)	+ Medium (M)	Medium (M)	
Proposed Mitigation:	 Ensure that low-, medium- and high skilled workers use provided working opportunities. Low-, medium- and high skilled workers must be sourced locally. Were practically possible, previously disadvantaged individuals should be provided preference with regards to employment opportunities. Individuals must be trained and continuously developed 					

DECOMMISION PHASE							
Potential Dust Impacts:							
Nature of impact: Dust nuisance generated do	Activity: Proposed development of organic pumpkin farming fields						
Evaluation	Alternative 1	L (Preferred)	Alteri	native 2	No-Go Alternative		
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-90 Alternative		
Magnitude:	6	4	6	4	2		
Duration:	1	1	1	1	2		
Extent:	2	2	2	2	1		
Irreplaceable:	1	1	1	1	1		
Reversibility:	2	1	2	1	2		
Probability:	2	2	2	2	2		
Total SP:	24	18	24	18	16		
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)		
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)		
Proposed Mitigation:	 Dust Management measures must be implemented in order to manage and minimize undesired dust emissions. Access roads and cultivated land areas to be decommissioned are to be ripped and seeded for vegetation regrowth to avoid dust. Cultivated lands need to be rehabilitated by planting buffalo grass. 						
	Pot	tential Surface and Grou	Indwater Contamination	Impacts:			
Nature of impact: Surface and Groundwater Opesticides.	Nature of impact: Surface and Groundwater Contamination during the decommissioning phase by means of fertilizer and/or any other hazardous substances or Proposed development						
Evaluation	Alternative 1	l (Preferred)	Alteri	native 2	No Co Altomostivo		
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative		
Magnitude:	2	0	2	0	0		
Duration:	1	1	1	1	1		
Extent:	2	1	2	1	1		
Irreplaceable:	1	1	1	1	1		
Reversibility:	1	1	1	1	1		
Probability:	1	1	1	1	1		
Total SP:	7	4	7	4	4		
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)		

Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)	
Proposed Mitigation:	 When fertilisers / pesticides are used in the planting of seeds, ensure that all fertilisers / pesticides are environmentally friendly. When fertilisers / pesticides are used, only use the correct amount as indicated by the parcels. Do not over use. Material Safety Data Sheets (MSDS) must be available on site for all chemicals and hazardous substances to be used on site, including information on their ecological impacts and how to minimise the impacts in case of any leakages. All spills must be cleaned as soon as they occur. A spill kit must be used and proof of clean up must be given to the ECO. Spillages of petrochemical products must be avoided. In the case of accidental spillage, contaminated soil must be removed for bioremediation or disposed of at a facility for the substance concerned. Disturbed land must be rehabilitated and seeded with vegetation seed naturally occurring on site. Provide suitable and sufficient ablution facilities (1 for every 15 personnel on site and 1 for each gender). Vehicles and machinery must be regularly serviced to avoid spillages. Drip trays must be placed beneath all stationary equipment and beneath all generators present on site. 					
		Potential Waste	Management Impacts:			
Nature of impact: Waste impacts by means of						
Evaluation	Alternative 1	. (Preferred)	Alter	native 2		
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative	
Magnitude:	2	2	2	2	2	
Duration:	1	1	1	1	2	
Extent:	1	1	1	1	1	
Irreplaceable:	1	1	1	1	1	
Reversibility:	1	1	1	1	2	
Probability:	1	1	1	1	2	
Total SP:	6	6	6	6	16	
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)	
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)	
Proposed Mitigation:	 An adequate number of scavenger proof litter bins are to be placed throughout the site, dumping of waste on the site is prohibited. Waste sorting and separation should form part of the environmental induction and awareness programme to encourage and educate personnel to recycle. Keep all work sites including storage areas, offices and workshops neat and tidy. All domestic waste is to be removed from site and disposed of at a registered solid waste landfill site. Care should be taken to ensure that no waste fall off disposal vehicles on-route to the landfill site. If needed, a tarpaulin can be utilised. The burning and burying of solid waste on site is prohibited. Littering by workers shall not be permitted. General waste shall be removed from site to an approved landfill site. 					

Potential Soil Contamination Impacts:

Nature of impact:

Increased Soil contamination by means of hazardous substances.

Activity:
Proposed development
of organic pumpkin
farming fields

Evaluation	Alternative 1 (Preferred)		Alternative 2		
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative
Magnitude:	2	0	2	0	0
Duration:	1	1	1	1	1
Extent:	2	1	2	1	1
Irreplaceable:	1	1	1	1	1
Reversibility:	1	1	1	1	1
Probability:	1	1	1	1	1
Total SP:	7	4	7	4	4
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)

- No leaked oil or fuel tankers may contaminate soil
- Proposed Mitigation:

 Spills outside the bund area must be treated with a spill kit
 - All significant leaks must be reported to the competent authority in terms of NEMA
 - Following a leak or accidental spill, a remediation plan must be compiled and executed.

Potential Soil Erosion Impacts:

Nature of impact:

Increased Soil erosion due to decommissioning activities.

Activity:
Proposed development
of organic pumpkin
farming fields

Evaluation	Alternative 1 (Preferred)		Alternative 2		
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative
Magnitude:	2	2	2	2	0
Duration:	3	3	3	3	1
Extent:	2	2	2	2	1
Irreplaceable:	2	2	2	2	1
Reversibility:	2	1	1	1	1
Probability:	3	1	3	1	1
Total SP:	33	10	30	10	4
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)

Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	Low (L)			
Proposed Mitigation:	 During the decommissioning phase, un-channelled flow must be controlled to avoid soil erosion. Where large areas of soil are left exposed, rows of straw or hay bales, or bundles of cut vegetation sourced with the ECO's knowledge and consent, should be dug into the soil in contours to slow surface wash and capture eroded soil. The method may also be used where surface run-off becomes concentrated, All water flow must be controlled using storm water management techniques before discharge into the existing natural drainage line, 							
	Temporary cut off drain	Temporary cut off drains may be required to capture storm water and promote infiltration,						
		Potential Soci	o-Economic Impacts:					
Nature of impact:					Activity:			
Increased socio-economic of	conditions due to job loss				Proposed development			
	of organic pumpkin							
	farming fields							
Evaluation	Alternative 1	No-Go Alternative						
Component:	Before Mitigation	After Mitigation	Before Mitigation	After Mitigation	No-Go Alternative			
Magnitude:	6	4	6	4	6			
Duration:	3	2	3	2	1			
Extent:	3	3	3	3	2			
Irreplaceable:	2	1	2	1	2			
Reversibility:	2	2	2	2	2			
Probability:	2	2	2	2	4			
Total SP:	32	24	32	24	52			
Significance rating:	Low (L)	Low (L)	Low (L)	Low (L)	+ Medium (M)			
Cumulative impact:	Low (L)	Low (L)	Low (L)	Low (L)	+ Medium (M)			
Proposed Mitigation:	 Ensure that low-, medium- and high skilled workers working at the farm are given advance notice in terms of the decommissioning. Assist Low-, medium- and high skilled worker in finding other possible vacancies. 							